AMENDMENTS TO THE ABSTRACT

Insert the following Abstract:

A method ~~for studying active and/or simulating mechanical properties of active structures applies a new type of element, namely~~ of modeling muscular tissue with active finite ~~element, through incorporation of a user-defined sub-programme into a conventional finite element code~~ elements. The motion and stress-strain distribution of the ~~active structure~~ muscular tissue can be predicted using ~~the finite element model that is constructed with~~ interconnections of the active finite elements. ~~The~~ Each active finite element ~~is driven by~~ includes a motor element ~~that is activated by a mathematical function~~ and at least one passive element, such as a dashpot or spring.